

## ABSTRACT

This invention is a method and apparatus for implanting retinal tacks and retinal electrode element with spiked electrodes. In one aspect of the invention, a tack suitable for insertion into the retina is driven into the retina by the repeated minute blows from the rapid contractions and expansions of the piezoelectric crystal. In a different aspect of the invention, a retinal electrode element with spiked electrodes suitable for insertion into the retina is driven into the retina by the repeated minute blows from the rapid contractions and expansions of the piezoelectric crystal. In another aspect of the invention, a single, short impulse is used to drive the tack home. In a different aspect of the invention, a single, short impulse is used to drive the retinal electrode element with spiked electrodes home. With this mode of tack and electrode element implanting, a remotely placed driver couples its motion to the tack using a thin, elongated tube filled with a suitable hydraulic fluid.